RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number: 10/789,494B
Source: IFW0
Date Processed by STIC: 2-3-05

ENTERED

CRF Errors Edited by the STIC Systems Branch

Serial Number: 10/789,494B : CRF Edit Date: 2-9-05
Edited by: JC

___ Realigned nucleic acid/amino acid numbers/text in cases where the sequence text "wrapped" to the next line

___ Corrected the SEQ ID NO. Sequence numbers edited were:

_____

___ Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:

_____

___ Deleted: ___ invalid beginning/end-of-file text ; ___ page numbers

___ Inserted mandatory headings/numeric identifiers, specifically:

_____

___ Moved responses to same line as heading/numeric identifier, specifically:

_____

✓ Other: Corrected AMINO Acid Numbering in Seq ID # 14.

Revised 09/09/2003

IFWO

RAW SEQUENCE LISTING
PATENT APPLICATION: US/10/789,494B

DATE: 02/09/2005
TIME: 17:16:28

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\02092005\J789494B.raw

<110> APPLICANT: TSUBOUCHI, Kozo
YAMADA, Hiromi
<120> TITLE OF INVENTION: EXTRACTION AND UTILIZATION OF CELL GROWTH-PROMOTING PEPTIDES FROM SILK PROTEIN
<130> FILE REFERENCE: OPS 635
C--> <140> CURRENT APPLICATION NUMBER: US/10/789,494B
<141> CURRENT FILING DATE: 2004-02-27
<150> PRIOR APPLICATION NUMBER: JP 2003-55048
<151> PRIOR FILING DATE: 2003-02-28
<160> NUMBER OF SEQ ID NOS: 85
<210> SEQ ID NO: 1
<211> LENGTH: 10
<212> TYPE: PRT
<213> ORGANISM: Bombyx mori
<400> SEQUENCE: 1
Val Ile Thr Thr Asp Ser Asp Gly Asn Glu
5 10
<210> SEQ ID NO: 2
<211> LENGTH: 8
<212> TYPE: PRT
<213> ORGANISM: Bombyx mori
<400> SEQUENCE: 2
Asn Ile Asn Asp Phe Asp Glu Asp
5
<210> SEQ ID NO: 3
<211> LENGTH: 23
<212> TYPE: PRT
<213> ORGANISM: Bombyx mori
<400> SEQUENCE: 3
Ala Ala Ser Ser Val Ser Ser Ala Ser Ser Arg Ser Tyr Asp Tyr Ser Arg Arg Asn Val
5 10 15 20
Arg Lys Asn
<210> SEQ ID NO: 4
<211> LENGTH: 29
<212> TYPE: PRT
<213> ORGANISM: Bombyx mori
<400> SEQUENCE: 4
Gly Ser Ser Gly Phe Gly Pro Tyr Val Ala His Gly Gly Tyr Ser Gly Tyr Glu Tyr Ala
5 10 15 20
Trp Ser Ser Glu Ser Asp Phe Gly Thr
25
<210> SEQ ID NO: 5
<211> LENGTH: 12

RAW SEQUENCE LISTING DATE: 02/09/2005
PATENT APPLICATION: US/10/789,494B TIME: 17:16:28

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\02092005\J789494B.raw

<212> TYPE: PRT
<213> ORGANISM: Antheraea yamamai
<400> SEQUENCE: 5
Tyr Gly Trp Gly Asp Gly Gly Tyr Gly Ser Asp Ser
5 10
<210> SEQ ID NO: 6
<211> LENGTH: 6
<212> TYPE: PRT
<213> ORGANISM: Antheraea yamamai
<400> SEQUENCE: 6
Asp Glu Tyr Val Asp Asn
5
<210> SEQ ID NO: 7
<211> LENGTH: 20
<212> TYPE: PRT
<213> ORGANISM: Antheraea yamamai
<400> SEQUENCE: 7
Val Glu Thr Ile Val Leu Glu Glu Asp Pro Tyr Gly His Glu Asp Ile Tyr Glu Glu Asp
5 10 15 20
<210> SEQ ID NO: 8
<211> LENGTH: 13
<212> TYPE: PRT
<213> ORGANISM: Antheraea yamamai
<400> SEQUENCE: 8
Asp Asp Gly Phe Val Leu Asp Gly Gly Tyr Asp Ser Glu
5 10
<210> SEQ ID NO: 9
<211> LENGTH: 151
<212> TYPE: PRT
<213> ORGANISM: Bombyx mori
<400> SEQUENCE: 9
Met Arg Val Lys Thr Phe Val Ile Leu Cys Cys Ala Leu Gln Tyr Val Ala Tyr Thr Asn
5 10 15 20
Ala Asn Ile Asn Asp Phe Asp Glu Asp Tyr Phe Gly Ser Asp Val Thr Val Gln Ser Ser
25 30 35 40
Asn Thr Thr Asp Glu Ile Ile Arg Asp Ala Ser Gly Ala Val Ile Glu Glu Gln Ile Thr
45 50 55 60
Thr Lys Lys Met Gln Arg Lys Asn Lys Asn His Gly Ile Leu Gly Lys Asn Glu Lys Met
65 70 75 80
Ile Lys Thr Phe Val Ile Thr Thr Asp Ser Asp Gly Asn Glu Ser Ile Val Glu Glu Asp
85 90 95 100
Val Leu Met Lys Thr Leu Ser Asp Gly Thr Val Ala Gln Ser Tyr Val Ala Ala Asp Ala
105 110 115 120
Gly Ala Tyr Ser Gln Ser Gly Pro Tyr Val Ser Asn Ser Gly Tyr Ser Thr His Gln Gly
125 130 135 140
Tyr Thr Ser Asp Phe Ser Thr Ser Ala Ala Val
145 150
<210> SEQ ID NO: 10
<211> LENGTH: 30

RAW SEQUENCE LISTING DATE: 02/09/2005
PATENT APPLICATION: US/10/789,494B TIME: 17:16:28

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\02092005\J789494B.raw

118 <212> TYPE: PRT
119 <213> ORGANISM: Bombyx mori
121 <400> SEQUENCE: 10
122 Gly Ser Ser Gly Phe Gly Pro Tyr Val Ala Asn Gly Gly Tyr Ser Arg Ser Asp Gly Tyr
123 5 10 15 20
124 Glu Tyr Ala Trp Ser Ser Asp Phe Gly Thr
125 25 30
127 <210> SEQ ID NO: 11
128 <211> LENGTH: 29
129 <212> TYPE: PRT
130 <213> ORGANISM: Bombyx mori
132 <400> SEQUENCE: 11
133 Gly Ser Ser Gly Phe Gly Pro Tyr Val Ala His Gly Gly Tyr Ser Gly Tyr Glu Tyr Ala
134 5 10 15 20
135 Trp Ser Ser Glu Ser Asp Phe Gly Thr
136 25
138 <210> SEQ ID NO: 12
139 <211> LENGTH: 29
140 <212> TYPE: PRT
141 <213> ORGANISM: Bombyx mori
143 <400> SEQUENCE: 12
144 Gly Ser Ser Gly Phe Gly Pro Tyr Val Ala Asn Gly Gly Tyr Ser Gly Tyr Glu Tyr Ala
145 5 10 15 20
146 Trp Ser Ser Glu Ser Asp Phe Gly Thr
147 25
149 <210> SEQ ID NO: 13
150 <211> LENGTH: 29
151 <212> TYPE: PRT
152 <213> ORGANISM: Bombyx mori
154 <400> SEQUENCE: 13
155 Gly Ser Ser Gly Phe Gly Pro Tyr Val Ala His Gly Gly Tyr Ser Gly Tyr Glu Tyr Ala
156 5 10 15 20
157 Trp Ser Ser Glu Ser Asp Phe Gly Thr
158 25
160 <210> SEQ ID NO: 14
161 <211> LENGTH: 29
162 <212> TYPE: PRT
163 <213> ORGANISM: Bombyx mori
165 <400> SEQUENCE: 14
166 Gly Ser Ser Gly Phe Gly Pro Tyr Val Ala His Gly Gly Tyr Ser Gly Tyr Glu Tyr Ala
167 1 5 10 15 20
168 Trp Ser Ser Glu Ser Asp Phe Gly Thr
169 25
171 <210> SEQ ID NO: 15
172 <211> LENGTH: 29
173 <212> TYPE: PRT
174 <213> ORGANISM: Bombyx mori
176 <400> SEQUENCE: 15
177 Gly Ser Ser Gly Phe Gly Pro Tyr Val Ala Asn Gly Gly Tyr Ser Gly Tyr Glu Tyr Ala

RAW SEQUENCE LISTING DATE: 02/09/2005
PATENT APPLICATION: US/10/789,494B TIME: 17:16:28

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\02092005\J789494B.raw

178 5 10 15 20
179 Trp Ser Ser Glu Ser Asp Phe Gly Thr
180 25
182 <210> SEQ ID NO: 16
183 <211> LENGTH: 29
184 <212> TYPE: PRT
185 <213> ORGANISM: Bombyx mori
187 <400> SEQUENCE: 16
188 Gly Ser Ser Gly Phe Gly Pro Tyr Val Ala Asn Gly Gly Tyr Ser Gly Tyr Glu Tyr Ala
189 5 10 15 20
190 Trp Ser Ser Glu Ser Asp Phe Gly Thr
191 25
193 <210> SEQ ID NO: 17
194 <211> LENGTH: 29
195 <212> TYPE: PRT
196 <213> ORGANISM: Bombyx mori
198 <400> SEQUENCE: 17
199 Gly Ser Ser Gly Phe Gly Pro Tyr Val Ala Asn Gly Gly Tyr Ser Gly Tyr Glu Tyr Ala
200 5 10 15 20
201 Trp Ser Ser Glu Ser Asp Phe Gly Thr
202 25
204 <210> SEQ ID NO: 18
205 <211> LENGTH: 28
206 <212> TYPE: PRT
207 <213> ORGANISM: Bombyx mori
209 <400> SEQUENCE: 18
210 Gly Ser Ser Gly Phe Gly Pro Tyr Val Asn Gly Gly Tyr Ser Gly Tyr Glu Tyr Ala Trp
211 5 10 15 20
212 Ser Ser Glu Ser Asp Phe Gly Thr
213 25
215 <210> SEQ ID NO: 19
216 <211> LENGTH: 29
217 <212> TYPE: PRT
218 <213> ORGANISM: Bombyx mori
220 <400> SEQUENCE: 19
221 Gly Ser Ser Gly Phe Gly Pro Tyr Val Ala Asn Gly Gly Tyr Ser Gly Tyr Glu Tyr Ala
222 5 10 15 20
223 Trp Ser Ser Glu Ser Asp Phe Gly Thr
224 25
226 <210> SEQ ID NO: 20
227 <211> LENGTH: 32
228 <212> TYPE: PRT
229 <213> ORGANISM: Bombyx mori
231 <400> SEQUENCE: 20
232 Gly Ser Ser Gly Phe Gly Pro Tyr Val Ala Asn Gly Gly Tyr Ser Arg Arg Glu Gly Tyr
233 5 10 15 20
234 Glu Tyr Ala Trp Ser Ser Lys Ser Asp Phe Glu Thr
235 25 30
237 <210> SEQ ID NO: 21

RAW SEQUENCE LISTING DATE: 02/09/2005
PATENT APPLICATION: US/10/789,494B TIME: 17:16:28

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\02092005\J789494B.raw

<211> LENGTH: 43
<212> TYPE: PRT
<213> ORGANISM: Bombyx mori
<400> SEQUENCE: 21
Ala Ala Ser Ser Val Ser Ser Ala Ser Ser Arg Ser Tyr Asp Tyr Ser Arg Arg Asn Val
5 10 15 20
Arg Lys Asn Cys Gly Ile Pro Arg Arg Gln Leu Val Val Lys Phe Arg Ala Leu Pro Cys
25 30 35 40
Val Asn Cys
<210> SEQ ID NO: 22
<211> LENGTH: 262
<212> TYPE: PRT
<213> ORGANISM: Bombyx mori
<400> SEQUENCE: 22
Met Lys Pro Ile Phe Leu Val Leu Leu Val Ala Thr Ser Ala Tyr Ala Ala Pro Ser Val
5 10 15 20
Thr Ile Asn Gln Tyr Ser Asp Asn Glu Ile Pro Arg Asp Ile Asp Asp Gly Lys Ala Ser
25 30 35 40
Ser Val Ile Ser Arg Ala Trp Asp Tyr Val Asp Asp Thr Asp Lys Ser Ile Ala Ile Leu
45 50 55 60
Asn Val Gln Glu Ile Leu Lys Asp Met Ala Ser Gln Gly Asp Tyr Ala Ser Gln Ala Ser
65 70 75 80
Ser Val Ala Gln Thr Ala Gly Ile Ile Ala His Leu Ser Ala Gly Ile Pro Gly Asp Ala
85 90 95 100
Cys Ala Ala Ala Asn Val Ile Asn Ser Tyr Thr Asp Gly Val Arg Ser Gly Asn Phe Ala
105 110 115 120
Gly Phe Arg Gln Ser Leu Gly Pro Phe Phe Gly His Val Gly Gln Asn Leu Asn Leu Ile
125 130 135 140
Asn Gln Leu Val Ile Asn Pro Gly Gln Leu Arg Tyr Ser Val Gly Pro Ala Leu Gly Cys
145 150 155 160
Ala Gly Gly Gly Arg Ile Tyr Asp Phe Glu Ala Ala Trp Asp Ala Ile Leu Ala Ser Ser
165 170 175 180
Asp Ser Ser Phe Leu Asn Glu Glu Tyr Cys Ile Val Lys Arg Leu Tyr Asn Ser Arg Asn
185 190 195 200
Ser Gln Ser Asn Asn Ile Ala Ala Tyr Ile Thr Ala His Leu Leu Pro Pro Val Ala Gln
205 210 215 220
Val Phe His Gln Ser Ala Gly Ser Ile Thr Asp Leu Leu Arg Gly Val Gly Asn Gly Asn
225 230 235 240
Asp Ala Thr Gly Leu Val Ala Asn Ala Gln Arg Tyr Ile Ala Gln Ala Ala Ser Gln Val
245 250 255 260
His Val
<210> SEQ ID NO: 23
<211> LENGTH: 120
<212> TYPE: PRT
<213> ORGANISM: Antheraea yamamai
<400> SEQUENCE: 23
Met Arg Val Thr Ala Phe Val Ile Leu Cys Cys Ala Leu Gln Tyr Ala Thr Ala Asn Asn
5 10 15 20
Leu His His His Asp Glu Tyr Val Asp Asn His Gly Gln Leu Val Glu Arg Phe Thr Thr

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 02/09/2005
PATENT APPLICATION: US/10/789,494B TIME: 17:16:29

Input Set : A:\pto.kd.txt
Output Set: N:\CRF4\02092005\J789494B.raw

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:3; Line(s) 42
Seq#:4; Line(s) 52
Seq#:9; Line(s) 99,101,103,105,107,109,111
Seq#:10; Line(s) 122
Seq#:11; Line(s) 133
Seq#:12; Line(s) 144
Seq#:13; Line(s) 155
Seq#:14; Line(s) 166
Seq#:15; Line(s) 177
Seq#:16; Line(s) 188
Seq#:17; Line(s) 199
Seq#:18; Line(s) 210
Seq#:19; Line(s) 221
Seq#:20; Line(s) 232
Seq#:21; Line(s) 245
Seq#:22; Line(s) 255,257,259,261,263,265,269,271,273,275,277,279
Seq#:23; Line(s) 289,291,293,295,297
Seq#:25; Line(s) 318,320
Seq#:27; Line(s) 340
Seq#:28; Line(s) 351
Seq#:30; Line(s) 370
Seq#:34; Line(s) 407
Seq#:35; Line(s) 417
Seq#:36; Line(s) 427
Seq#:37; Line(s) 437
Seq#:39; Line(s) 456
Seq#:40; Line(s) 466
Seq#:42; Line(s) 486
Seq#:44; Line(s) 505
Seq#:45; Line(s) 515
Seq#:46; Line(s) 525
Seq#:48; Line(s) 544
Seq#:49; Line(s) 554
Seq#:51; Line(s) 573
Seq#:52; Line(s) 583
Seq#:53; Line(s) 593
Seq#:55; Line(s) 612
Seq#:56; Line(s) 623
Seq#:57; Line(s) 634
Seq#:58; Line(s) 644
Seq#:59; Line(s) 654
Seq#:60; Line(s) 664

VERIFICATION SUMMARY DATE: 02/09/2005
PATENT APPLICATION: **US/10/789,494B** TIME: 17:16:29

Input Set : **A:\pto.kd.txt**
Output Set: **N:\CRF4\02092005\J789494B.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:912 M:283 W: Missing Blank Line separator, <400> field identifier

IFWO

RAW SEQUENCE LISTING DATE: 02/03/2005
PATENT APPLICATION: **US/10/789,494B** TIME: 08:41:29

Input Set : **A:\1-24-05 Corrected Sequence Listing.txt**
Output Set: **N:\CRF4\02032005\J789494B.raw**

```
      2 <110> APPLICANT: TSUBOUCHI, Kozo
      3       YAMADA, Hiromi
      5 <120> TITLE OF INVENTION: EXTRACTION AND UTILIZATION OF CELL
      6       GROWTH-PROMOTING PEPTIDES FROM SILK PROTEIN
      8 <130> FILE REFERENCE: OPS 635
C--> 10 <140> CURRENT APPLICATION NUMBER: US/10/789,494B
     11 <141> CURRENT FILING DATE: 2004-02-27
     13 <150> PRIOR APPLICATION NUMBER: JP 2003-55048
     14 <151> PRIOR FILING DATE: 2003-02-28
     16 <160> NUMBER OF SEQ ID NOS: 85
```

Does Not Comply
Corrected Diskette Needed
(PS.1)

ERRORED SEQUENCES

```
    160 <210> SEQ ID NO: 14
    161 <211> LENGTH: 29
    162 <212> TYPE: PRT
    163 <213> ORGANISM: Bombyx mori
    165 <400> SEQUENCE: 14
    166 Gly Ser Ser Gly Phe Gly Pro Tyr Val Ala His Gly Gly Tyr Ser Gly Tyr Glu Tyr Ala
E--> 167 1               5                  10                  15                  120
    168 Trp Ser Ser Glu Ser Asp Phe Gly Thr
    169                 25
```

20

RAW SEQUENCE LISTING ERROR SUMMARY DATE: 02/03/2005
PATENT APPLICATION: US/10/789,494B TIME: 08:41:30

Input Set : A:\1-24-05 Corrected Sequence Listing.txt
Output Set: N:\CRF4\02032005\J789494B.raw

Invalid Line Length:
The rules require that a line not exceed 72 characters in length. This includes spaces.

Seq#:3; Line(s) 42
Seq#:4; Line(s) 52
Seq#:9; Line(s) 99,101,103,105,107,109,111
Seq#:10; Line(s) 122
Seq#:11; Line(s) 133
Seq#:12; Line(s) 144
Seq#:13; Line(s) 155
Seq#:14; Line(s) 166
Seq#:15; Line(s) 177
Seq#:16; Line(s) 188
Seq#:17; Line(s) 199
Seq#:18; Line(s) 210
Seq#:19; Line(s) 221
Seq#:20; Line(s) 232
Seq#:21; Line(s) 245
Seq#:22; Line(s) 255,257,259,261,263,265,269,271,273,275,277,279
Seq#:23; Line(s) 289,291,293,295,297
Seq#:25; Line(s) 318,320
Seq#:27; Line(s) 340
Seq#:28; Line(s) 351
Seq#:30; Line(s) 370
Seq#:34; Line(s) 407
Seq#:35; Line(s) 417
Seq#:36; Line(s) 427
Seq#:37; Line(s) 437
Seq#:39; Line(s) 456
Seq#:40; Line(s) 466
Seq#:42; Line(s) 486
Seq#:44; Line(s) 505
Seq#:45; Line(s) 515
Seq#:46; Line(s) 525
Seq#:48; Line(s) 544
Seq#:49; Line(s) 554
Seq#:51; Line(s) 573
Seq#:52; Line(s) 583
Seq#:53; Line(s) 593
Seq#:55; Line(s) 612
Seq#:56; Line(s) 623
Seq#:57; Line(s) 634
Seq#:58; Line(s) 644
Seq#:59; Line(s) 654
Seq#:60; Line(s) 664

VERIFICATION SUMMARY DATE: 02/03/2005
PATENT APPLICATION: **US/10/789,494B** TIME: 08:41:30

Input Set : **A:\1-24-05 Corrected Sequence Listing.txt**
Output Set: **N:\CRF4\02032005\J789494B.raw**

L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
L:167 M:332 E: (32) Invalid/Missing Amino Acid Numbering, SEQ ID:14